

100 lbs. Nickel-cent consist of 12 lb. Ni + 88 lb. Cu.

To make the Ni-cent into fimes (5 ct. pieces), the 12 Ni in 100 will take up 36 Cu making 48 lb. of fimes. The balance of Copper, $88 - 36 = 52$ lb., requires $\frac{52}{3} = 17\frac{1}{3}$ lb. Ni to make it into fimes, $= 69\frac{1}{3}$ lbs.

Hence the 100 lb. Ni-cent requires $17\frac{1}{3}$ lb. Ni to make 117 $\frac{1}{3}$ lb. of fimes. $117\frac{1}{3}$ fimes = Cu 88 lb. + 17 $\frac{1}{3}$ Ni +

~~48~~ 12 Ni = 88 Cu + 29 $\frac{1}{3}$ Ni = 117 $\frac{1}{3}$ ^{lbs} of fimes.

If the Ni be .95 pure it will require $18\frac{1}{4}$ Ni if the Ni be .98 " it will require $17\frac{7}{8}$.

We may fairly assume that the Ni is about .97 pure.

Then to 100 lbs. of Ni-cent add 18 lbs. of our Ni.

30 Sept. 1886. J. C. Booth